Environmental Analysis of Villa Savoye
Clearing is more open to South so building gets full sun even in winter

Limit of shadow from trees
At noon on December 21, the sun is about 20 degrees above the horizon. If the trees are about 40 feet tall, then using the tangent of the angle, their shadow is about 80 feet long.
Conclusions:

Grove of trees shields house from strong wind.

Clearing invites sun in

House designed to be accessible only by car. Suburban location requires driving – energy use for transportation

View frames canopy of trees, Verdure. Not specific details of location. Poetic presentation of Nature
Conclusions: In the spring and fall late morning and mid-day sun falls on the tile floor of the salon, making the space warm and comfortable. In the summer, only minimal sunlight enters, and in the winter the angle is so low that it does not heat the floor extensively. The space is thermally comfortable in mid-day in spring, summer and fall.
Conclusions

Salon has thermal mass in floor that is warmed by midday sun in spring and fall. In summer thermal mass is not hit by sun so retains coolness. In spring and fall, the salon is warmer than surrounding spaces. In summer it is cooler.

Solarium on roof catches midday sun all year. So it always heats up to be warmer than surrounding air.

Setting sun can be seen from table on patio. Glare shielded by wall above opening and by trees.

The floors are built of terracotta tile so have little insulation value. Floors not lit by sun will be cool.

Patio receives breeze from SW in summer. It is sheltered from cold NW wind in winter.